


Vinyl Chloride Emulsions for Graphic Arts and Functional Coatings Applications

A photograph showing several rolls of decorative wallpaper with floral patterns, stacked together.

▶▶▶▶▶ Lubrizon offers a complete line of vinyl chloride emulsions for the graphic arts industry. With our **Vycar**[®] vinyl chloride emulsions and **Carboset**[®] neutralized vinyl chloride copolymers, formulators can develop high-performance and durable specialty products for use in wallpaper, resilient flooring and various functional coating applications.

These polymers are designed to impart a wide range of properties, including chemical- and abrasion-resistance, grease- and water-resistance, and good flow. In addition, Vycar[®] and Carboset[®] vinyl chloride emulsions help to develop inks with fast drying capabilities, excellent rheology and mechanical stability.

- ▶ **Vycar 151** is an extremely hard vinyl chloride homopolymer.
- ▶ **Vycar 351** is a vinyl chloride copolymer that is utilized in release coatings for paper tape, decorative, washable and wear-resistant paper coatings, fabric sizes, coatings and binders.
- ▶ **Vycar 352** is a PVC emulsion for ink and release coatings for paper, tape, decorative, washable and wear-resistant paper coatings.
- ▶ **Vycar 460X46** is a self-crosslinking PVC acrylic latex with heat at or near 300° F for weather-, water-, solvent-, alcohol- and alkali-resistant coatings.
- ▶ **Vycar 460X95** offers heat curing without a catalyst, excellent substrate adhesion, improved resistance to water, and compatibility with other Vycar latexes. It is designed for use in inks, release coatings for paper, decorative, washable and wear-resistant coatings.
- ▶ **Carboset GA-2111** is an amine neutralized vinyl chloride copolymer that has high film-forming temperature and outstanding resistance properties. It is ideal for inks and coatings on PVC film.

Features & Benefits:

- ▶ Ideal for specialty applications including wallpaper and resilient flooring
- ▶ Easy plasticization
- ▶ Good film properties
- ▶ Excellent color and stability
- ▶ Superior resistance to chemicals, grease, abrasion and water
- ▶ Good adhesive properties

▶▶▶▶ Lubrizol's wide range of vinyl chloride emulsions, used in combination with acrylic monomers, vinyl acetate and vinylidene chloride, can help to develop various polymers with inherent flame retardance, excellent chemical- and abrasion-resistance, and flow properties.

Product	Type	Tg	Ionic Charge	Total Solids	Viscosity	pH
Vycar® 151	PVC Homopolymer	85	Anionic	50	25	10.5
Vycar 351	PVC Acrylic Emulsion	62	Anionic	57.5	20	10.5
Vycar 352	PVC Acrylic Emulsion	69	Anionic	57.5	25	10.5
Vycar 460X46	PVC Acrylic Emulsion	7	Anionic	49.0	36	5.0
Vycar 460X95	PVC Acrylic Emulsion	73	Anionic	51	20	5.0
Carboset® GA-2111	Polymer	73	N/A	51	100	6.3

